

What is claimed:

- Sub A7 >
1. A transgenic plant having enhanced resistance to a plant disease-causing agent selected from the group consisting of viruses, fungi, bacteria and nematodes; said cell being stably transformed with a DNA construct, expressible in the cell, encoding a WIPK enzyme.
2. The transgenic plant of claim 1, wherein the DNA construct comprises a WIPK-encoding region operably linked to a constitutive promoter.
3. The transgenic plant of claim 2, wherein the constitutive promoter is selected from the group consisting of cauliflower mosaic virus 35S promoter and figwort mosaic virus 35S promoter.
- Sub B2 4. The transgenic plant of claim 1, wherein the DNA construct comprises a WIPK-encoding region operably linked to an inducible promoter.
5. The transgenic plant of claim 4, wherein the inducible promoter is a tetracycline repressor/operator controlled promoter.
6. The transgenic plant of claim 1, wherein the DNA construct comprises a tobacco WIPK coding sequence.
- Sub 153 7. The transgenic plant of claim 1, which has enhanced resistance to tobacco mosaic virus.
8. The transgenic plant of claim 1, which has enhanced resistance to species of the fungal genus *Phytophthora*.

9. The transgenic plant of claim 1, which has enhanced resistance to species of the bacterial genus *Pseudomonas*.

5 10. A method of making a transgenic plant with enhanced disease resistance comprising:

Sub A8 > a) transforming regenerable cells of a plant with a recombinant DNA construct, expressible in a plant, encoding a WIPK enzyme; and

10 b) regenerating a transgenic plant from said transformed cells, said plant having enhanced disease resistance.

15 11. The method of claim 10, wherein the DNA construct constitutively produces the WIPK protein.

12. The method of claim 10, wherein the DNA construct inducibly produces the WIPK protein.

20 Sub 13. The method of claim 10, wherein the DNA construct comprises a tobacco WIPK coding sequence.

25 14. The method of claim 10, which produces a transgenic plant having enhanced resistance to plant pathogens selected from the group consisting of viruses, bacteria, fungi and nematodes.

30 15. The method of claim 14, which produces a plant having enhanced resistance to tobacco mosaic virus.

Sub A9 > 16. The method of claim 14, which produces a plant having enhanced resistance to species of the fungal genus *Phytophthora*.

35 17. The method of claim 14, which produces a plant having enhanced resistance to species of the bacterial genus *Pseudomonas*.

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